Attorney's Docket No.: 10982103-1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : D. Amnon Silverstein
Serial No. : 09/484,667
Filed : Jan. 18, 2000
Title : POINTING DEVICE FOR DIGITAL CAMERA DISPLAY

Art Unit : 2612
Examiner : Rosendale, Matthew L.

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

EXHIBIT B

Capybara

Will a microdisplay work well in a hand-held camera?
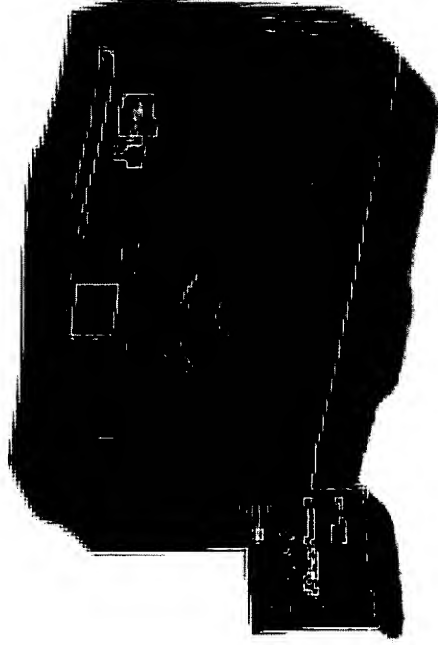
- Build a viewfinder display camera
- Test user-interface ideas
- Experiment with the camera in actual use

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Hardware

- Camera Body: Komodo (HID)
- Camera: Pixera
- Controller: Pentium desktop
- Display: Apix (ICBD)
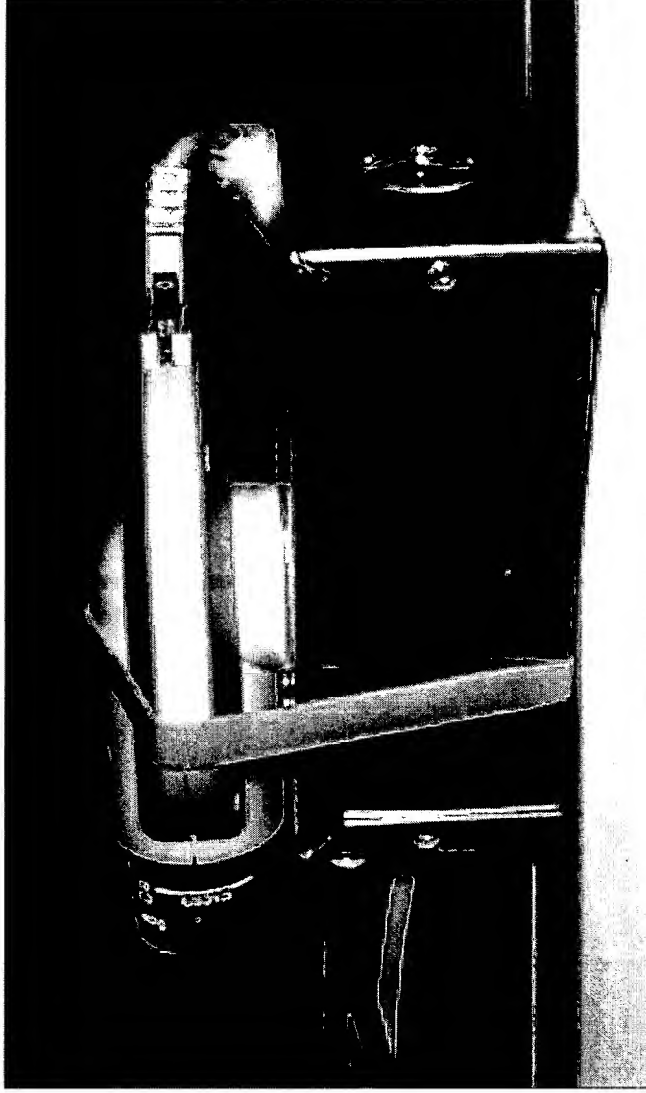- UI controls: Gameport
- Lens: C-mount
- View optics: HP (HID)

Gameport

Apix

Komodo

Pixera

C-mount
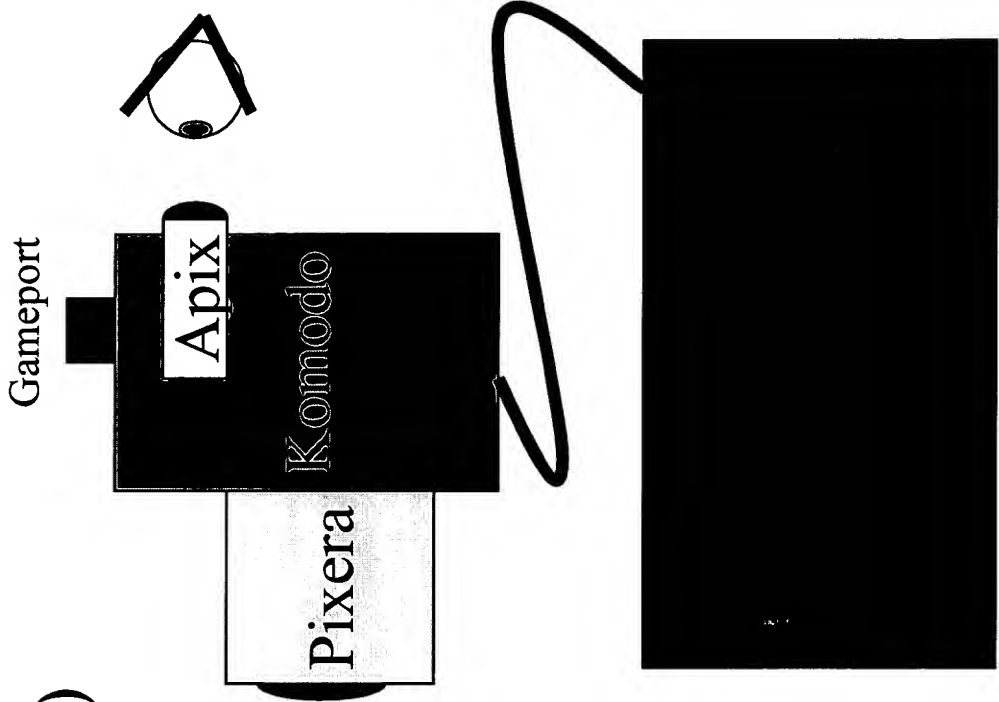
Modified Komodo

We chose the Pixera camera, and we modified it to fit into the Komodo body.

Unmodified

Modified

Interim Tester

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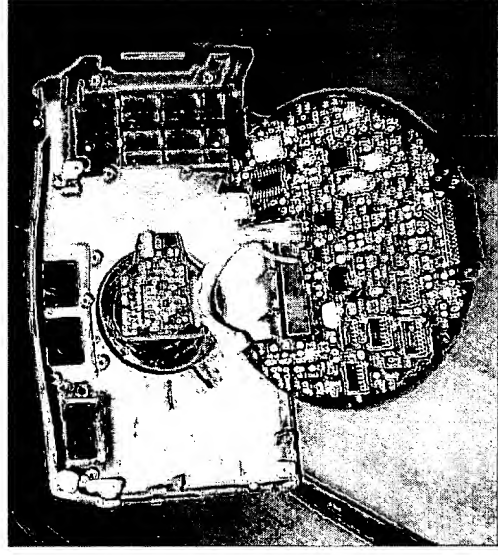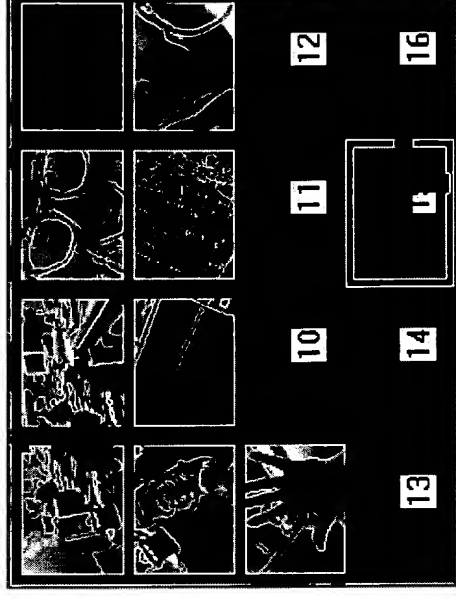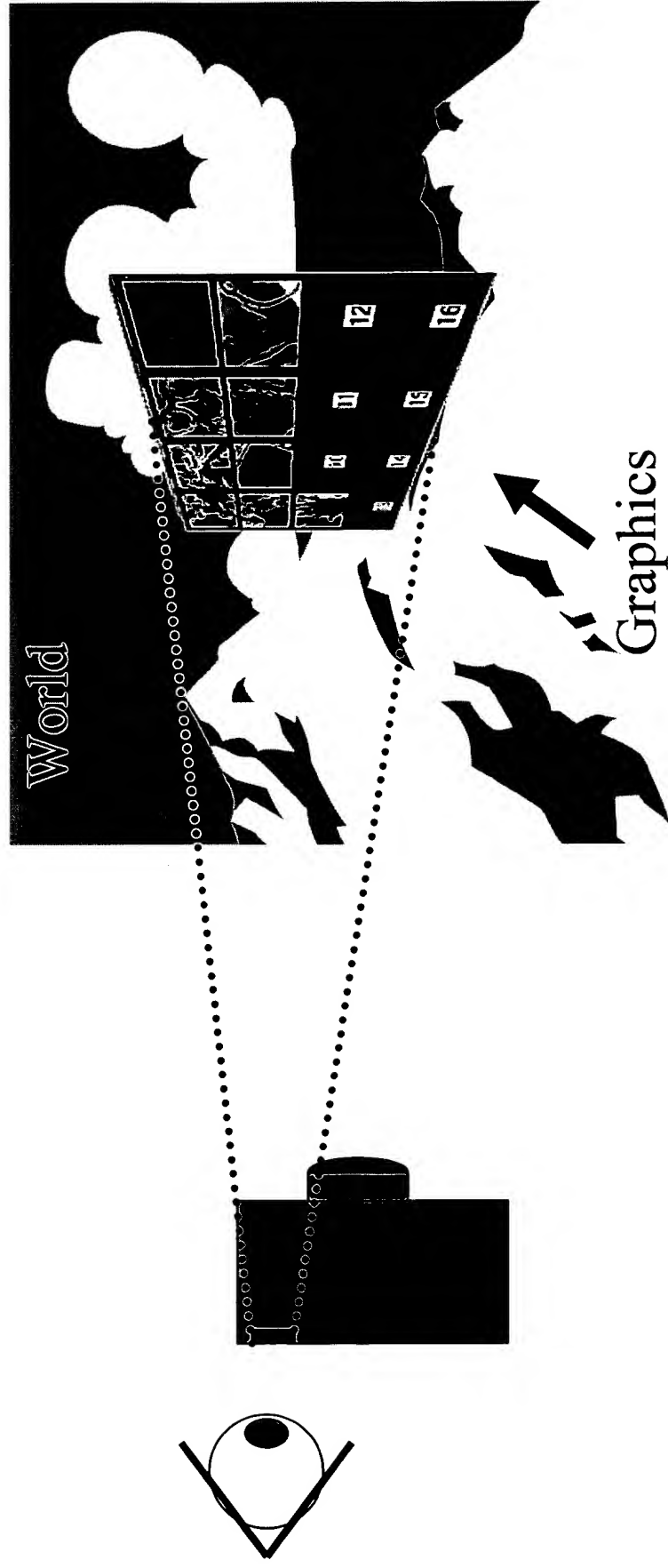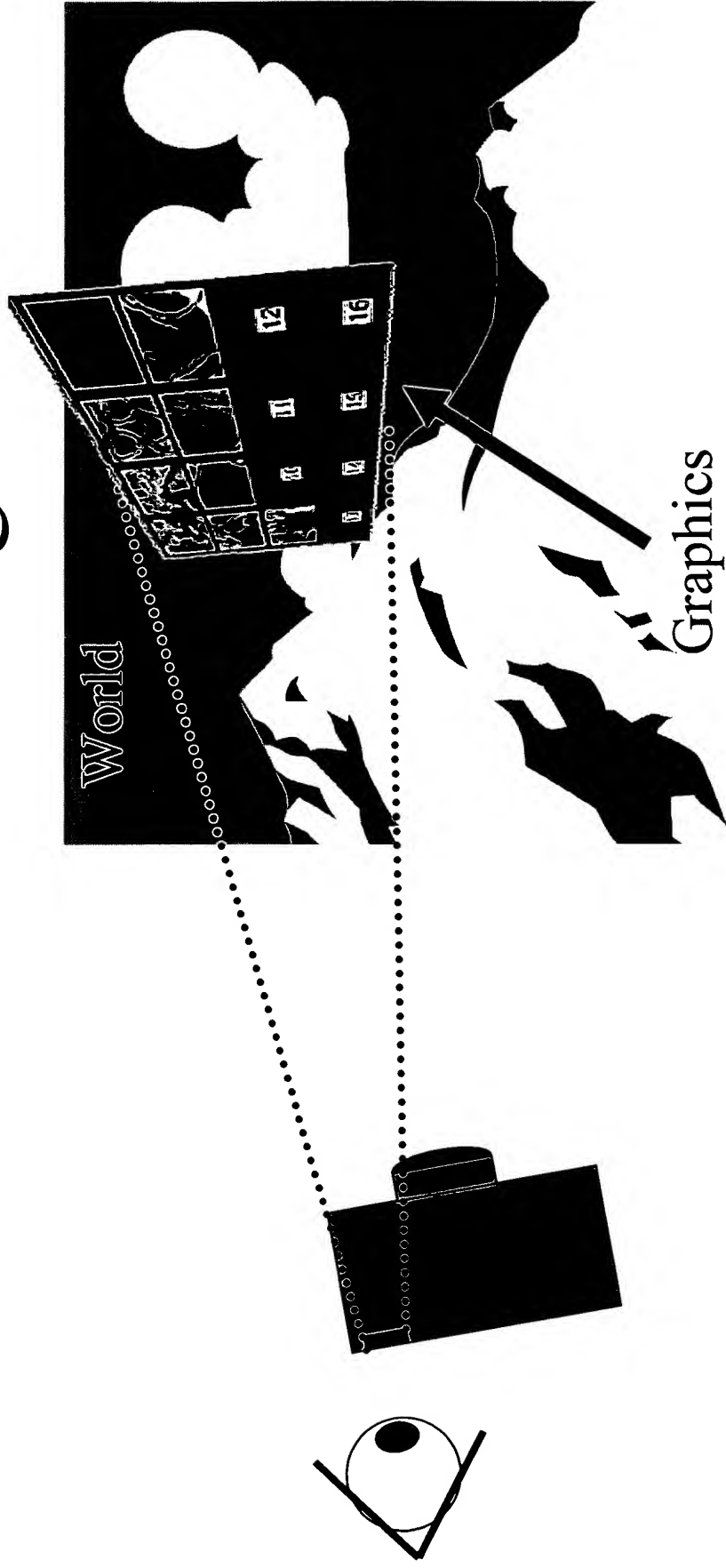
Software

- How will the UI work?

- It may be difficult to look into the display and operate the controls at the same time.
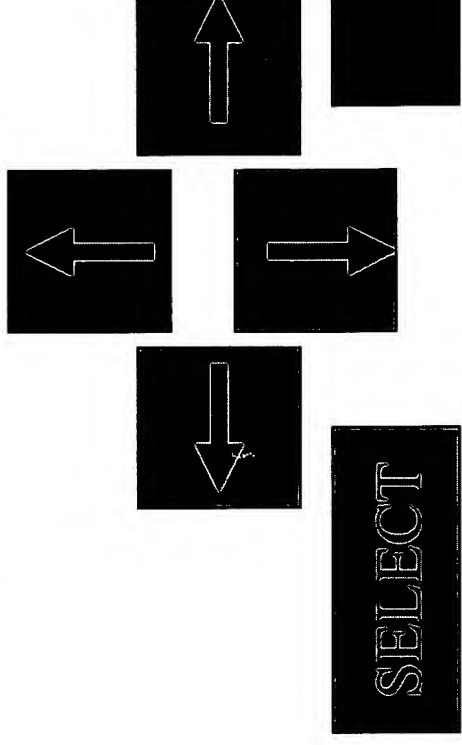
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Using the Camera Like a Gun-sight

World

Graphics

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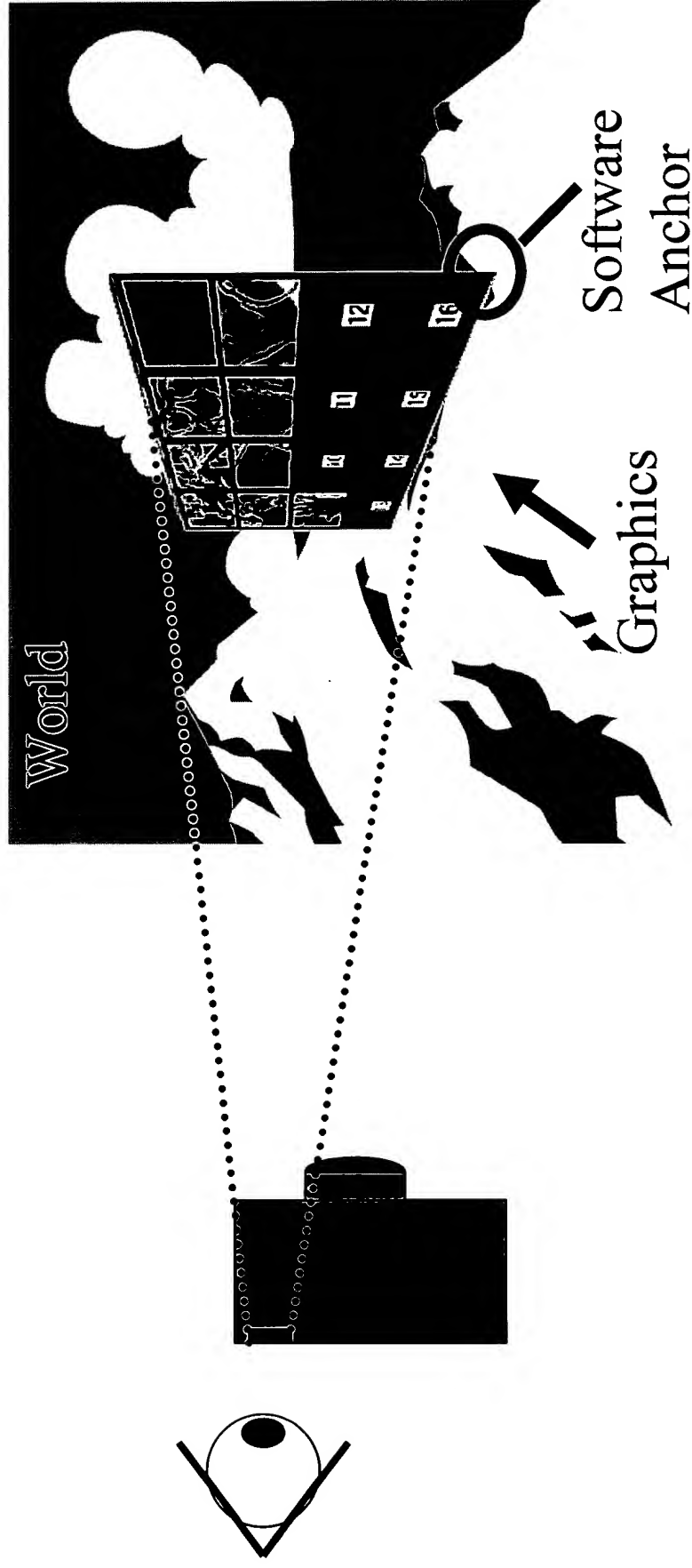# Using the Camera
Like a Gun-sight

World

Software
Anchor

Graphics

Confidential

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Using the Camera
Like a Gun-sight
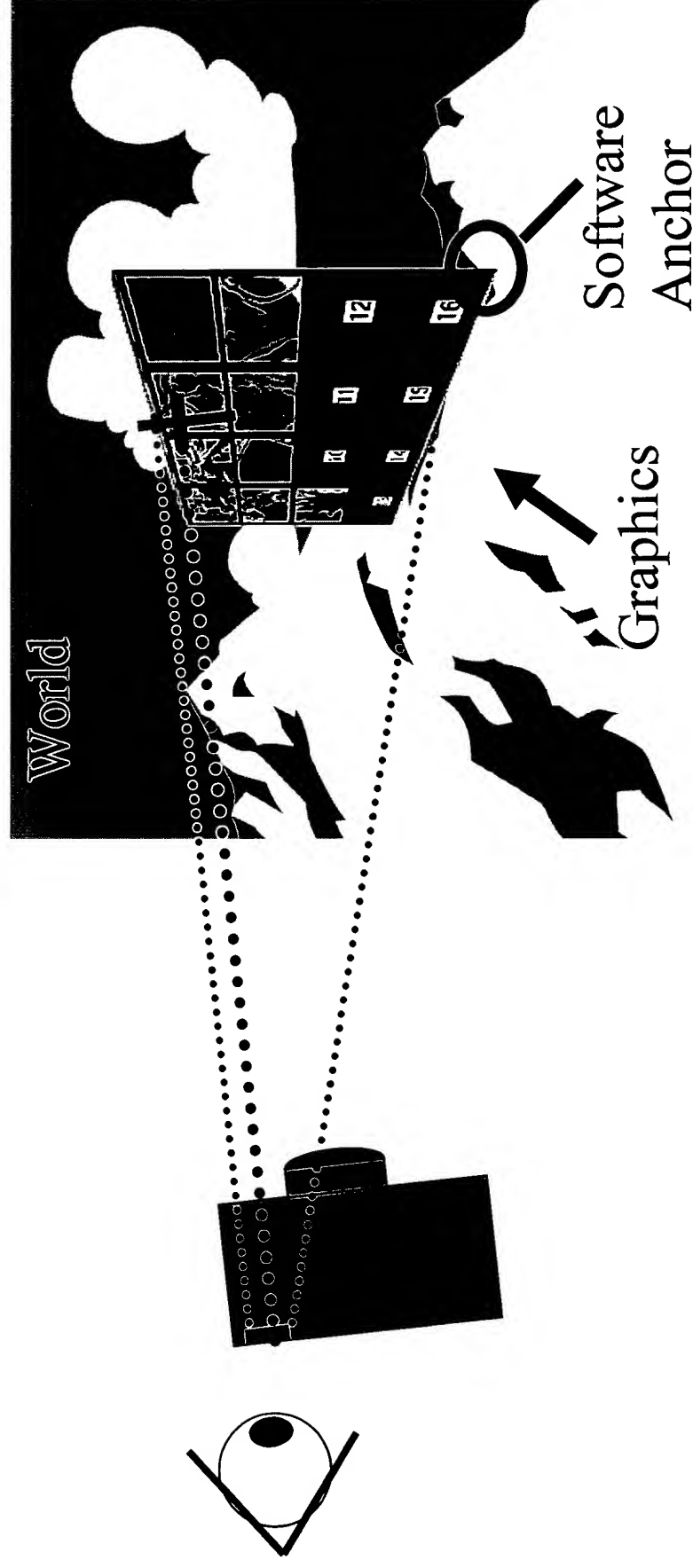
World

Software
Anchor

Graphics
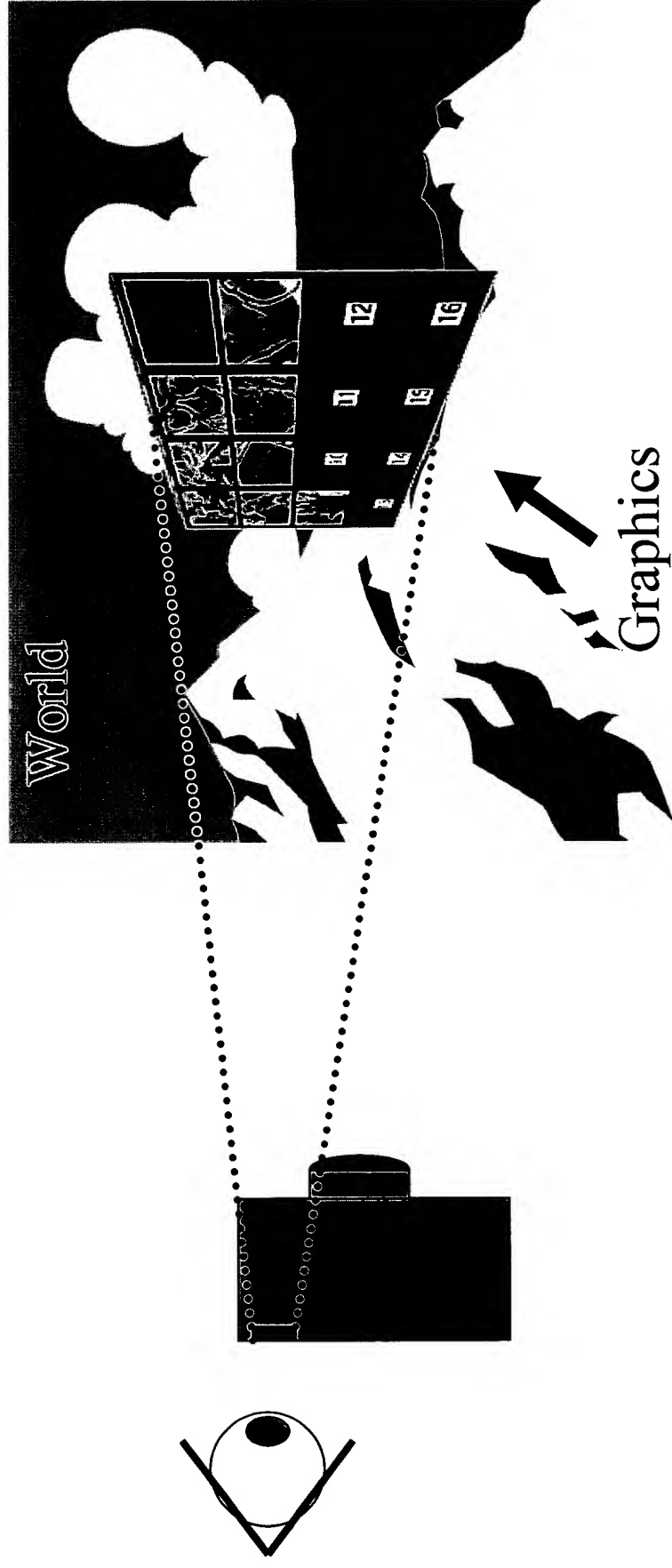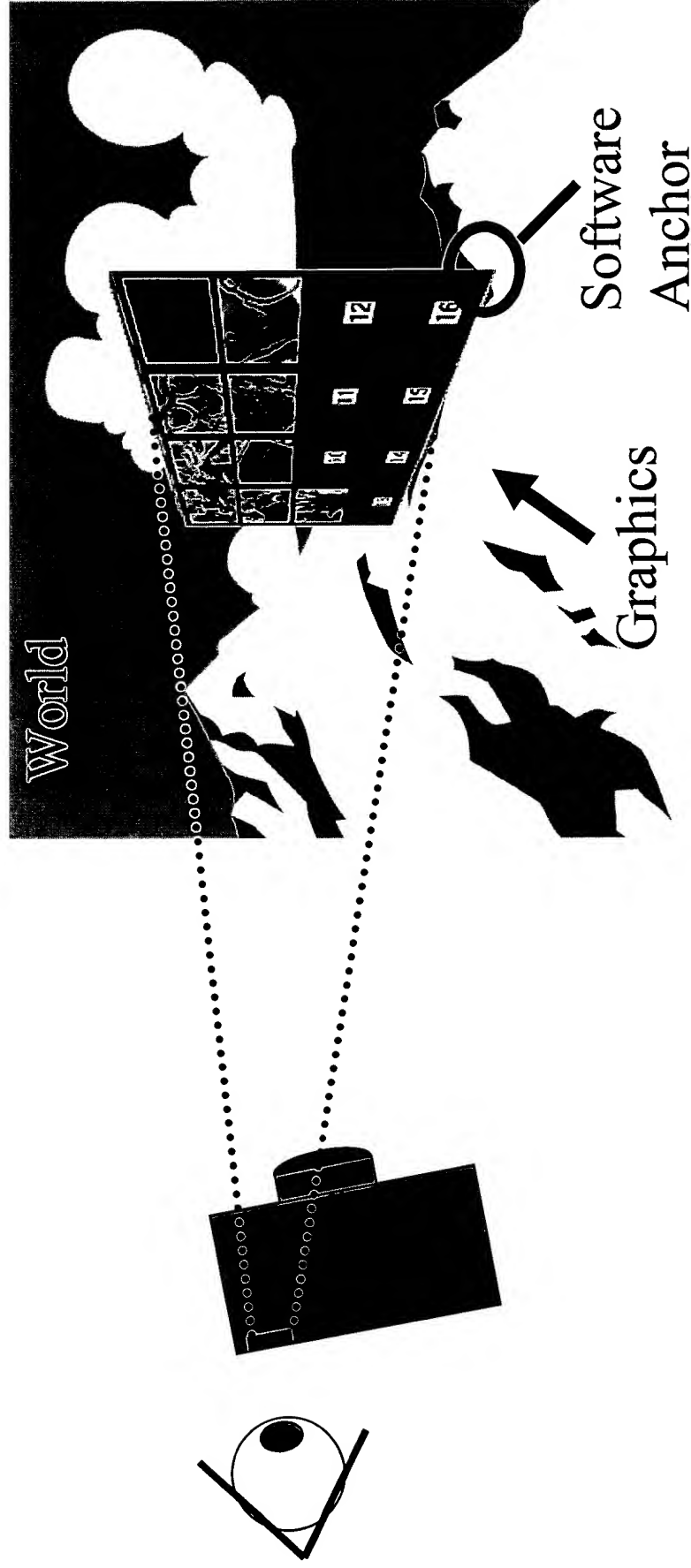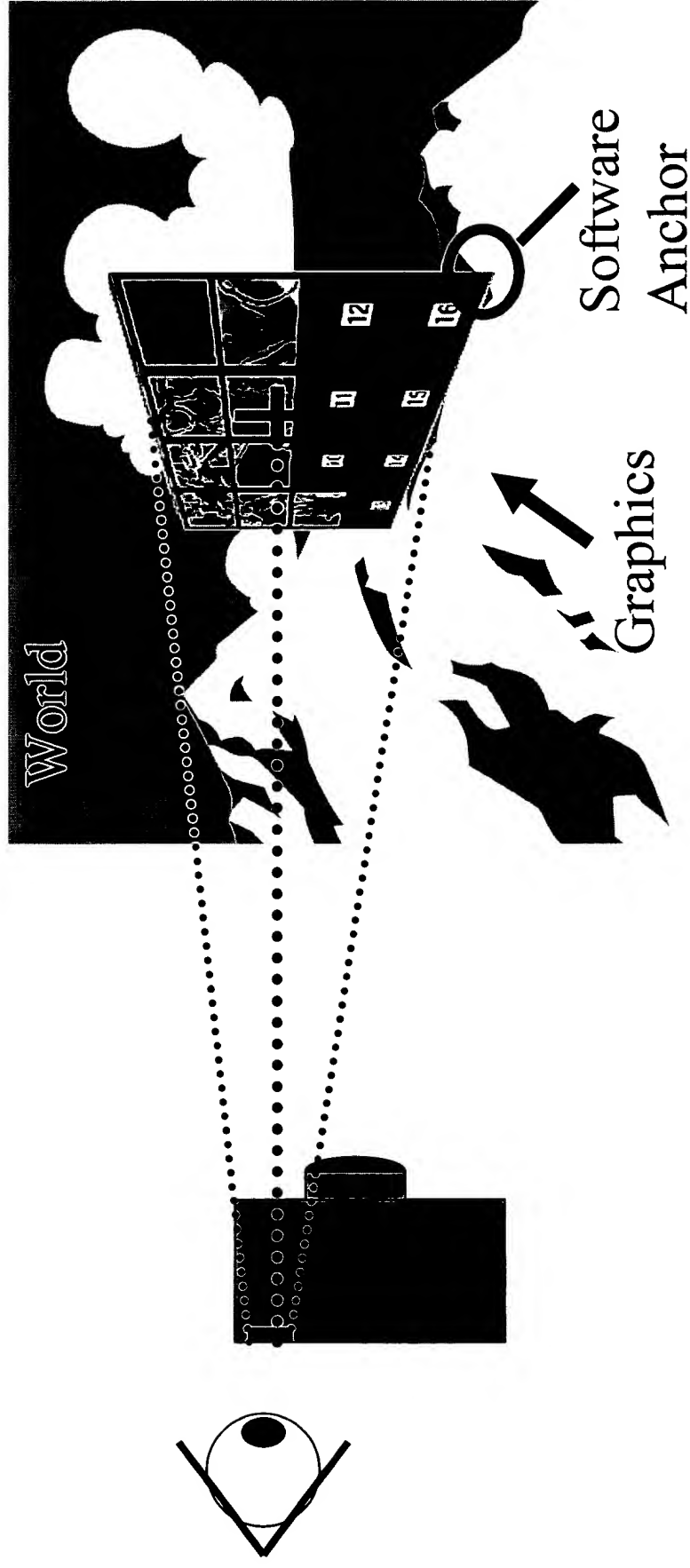
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Camera-Mouse

Use motion-tracking software (Andrew Patti) to track the position of the camera

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Camera-Mouse

Frame 1.

Frame 2.

Image Motion

Graphic Motion
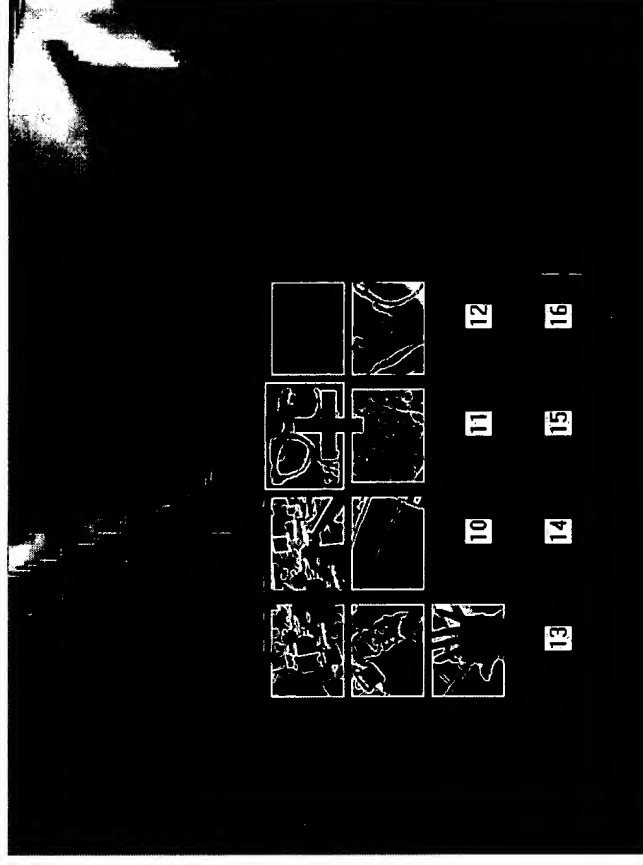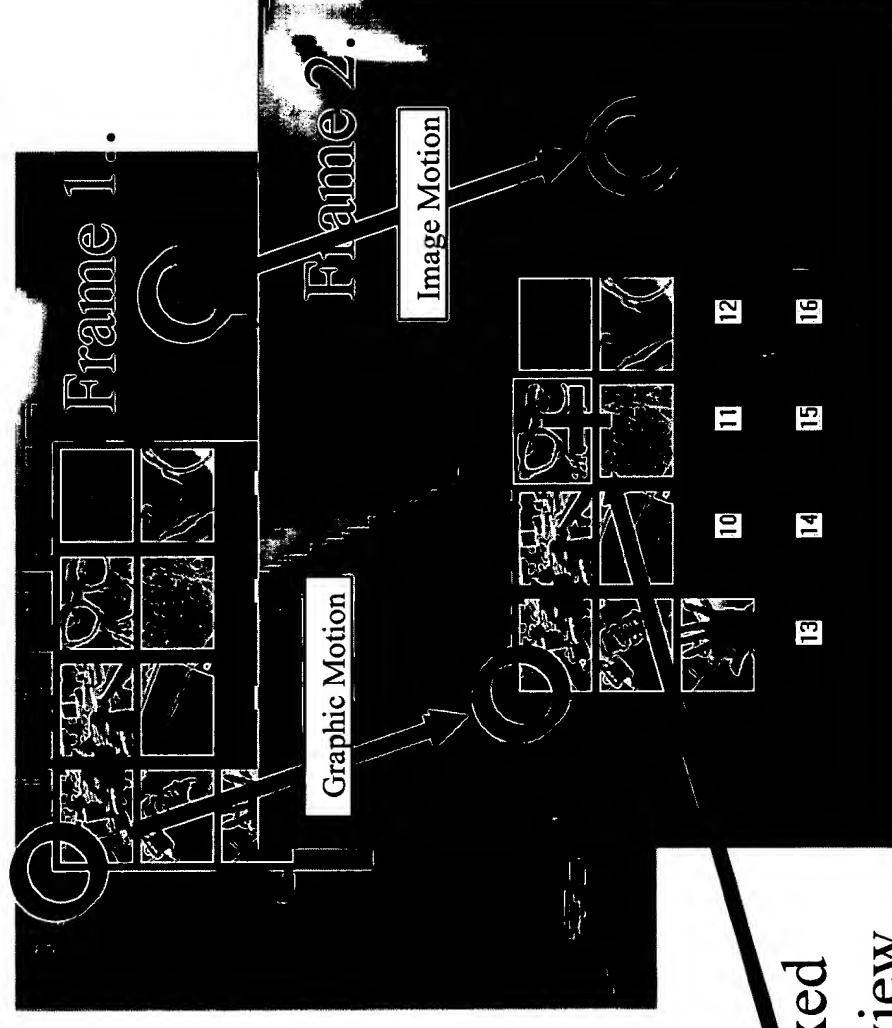
Crosshairs cursor fixed
in the center of the view.

13 10 11 12

14 15 16

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Flying Mouse

- Low cost
- Low power
- low light
- Built-in tracking algorithm